

North Bend Wind Project Overview

- Project was originated in 2015.
- Located on approximately 40,000 acres of land under easement. Setbacks and siting constraints limit the number of acres that could be utilized.
- Approximately 40 landowner groups participating in the Project.
- To date, Engie has completed extensive wind resource evaluations, over three years of biological/environmental field studies, and finalized the interconnection studies.
- PPAs have not been signed for the Project.
- Selected GE to supply wind turbines.
- Selected Wanzek to construct the Project.
- Target Commercial Operation End of 2022.



North Bend Wind Project

Project Components

- Proposed number of turbines. 78 proposed locations. Only 71 will be constructed.
- Generation Capacity. 200 megawatts (MW).
- **Point of Interconnect (POI).** New Substation constructed on the existing Fort Thompson to Oahe 230 kV transmission line.
- Underground Collection and Substation. All of the wind turbines will be connected by underground 34.5 kV collection lines. Voltage is stepped up to 230 kV at the project substation.
- Operations and maintenance facility. O&M activities will share the use of the O&M facility that was constructed for the Triple H project. An additional building may be constructed on the 6 acre parcel to support additional activities from the North Bend Wind Project.
- **Permanent Meteorological Tower.** To monitor performance and wind conditions. One unguyed tower proposed.

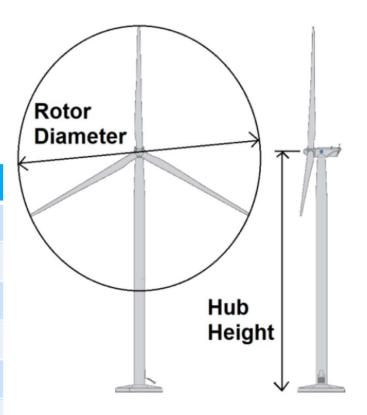


North Bend Wind Project

General Electric – 2.82-127 Wind Turbine

 Proposed Wind Turbine – General Electric 2.82-127 wind turbine generator

Design Features	GE 2.82-127
Nameplate Capacity	2.72 MW
Hub Height	99 m (292 ft.)
Rotor Diameter	127 m (417 ft.)
Total Height	151.2 m (496 ft.)
Cut-in Wind Speed	3 m/s (6.7 mph)
Cut-out Wind Speed	30.0 m/s (67.0 mph)





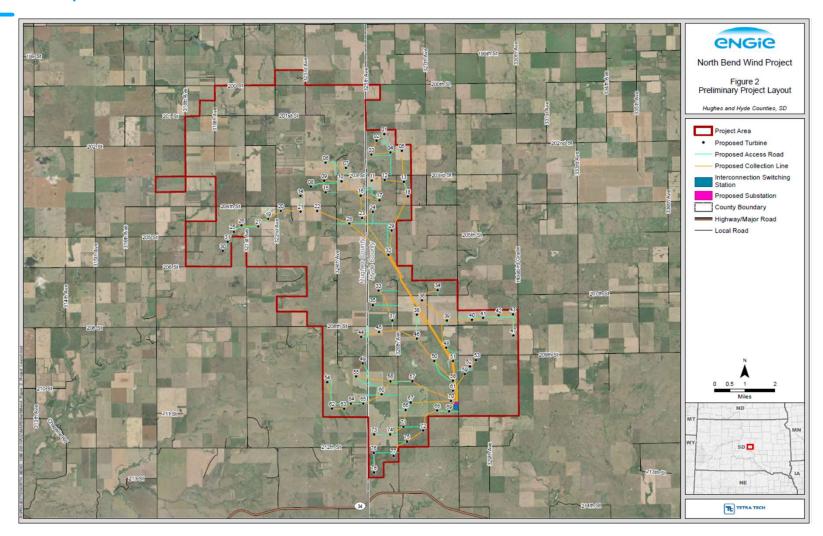
North Bend Wind Project Wanzek Construction – General Contractor

- Wanzek Construction was selected as the General Contractor after a RFP process.
- Wanzek is considered one of the top three wind turbine construction contractors doing work in the United States.
- Based in Fargo, North Dakota.
- Completed construction on over 9,000 MW of wind energy projects constituting over 4,500 wind turbines in the United States.
- Wanzek will complete all of the preliminary/final engineering and will complete the construction of the North Bend Wind Project.
- Wanzek has successfully constructed a number of wind projects in South Dakota, including the Triple H Wind Project and Dakota Range III.





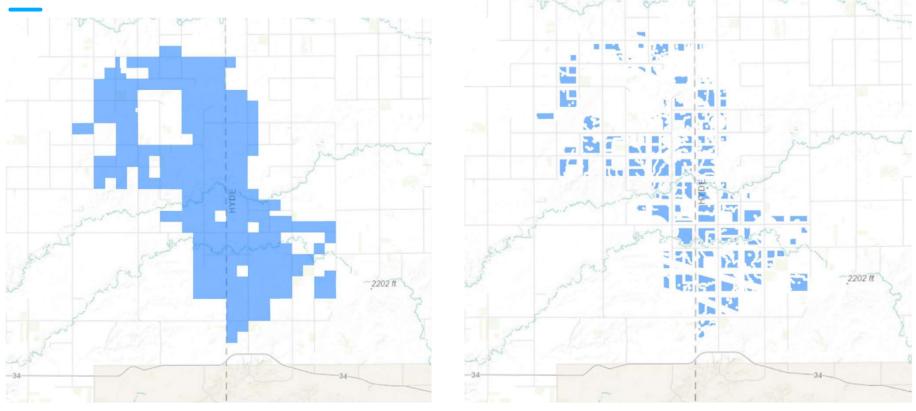
North Bend Wind Project Site Map





North Bend Wind Project

Useable Turbine Area



- All of the area under easement cannot necessarily be developed.
- Setbacks Roads, property boundaries, environmental constraints (USFWS grassland easements, protected wetland basins, etc), beam paths, houses, significantly reduce the area that could be considered.
- North Bend Approximately 21.1% of the area under easement could be used for turbine siting



North Bend Wind Project

Acoustic and Shadow Flicker Analysis

Acoustic Analysis

- Hughes and Hyde County Zoning Ordinances adopted an acoustic standard for wind projects.
- County threshold is 45 decibels at existing occupied residences, but allows this threshold to be exceeded if a waiver is signed by the landowner.
- 2 participating residences exceeded 45 decibels, but the landowners that have granted a waiver.
- Engie has committed to use GE's low noise, trailing edge option to reduce noise generated by the turbines.
- Appendix D of the Facility Permit Application includes the detailed acoustic analysis.

Shadow Flicker Analysis

- Hyde County Zoning Ordinance adopted a shadow flicker standard for wind projects.
- County threshold is 30 hours of exposure per year at occupied residences.
- 1 participating residences exceeded this threshold, but the landowners that have granted a waiver.
- Appendix E of the Facility Permit Application includes the detailed shadow flicker analysis.



North Bend Wind Project Discretionary Permit Approvals

Hyde County

- Conditional Use Permit
 - · Hyde County Hearing is scheduled for August 10, 2021
 - Hughes County has not formally confirmed a date for the hearing. Tentatively targeted for the end of August.
- Road Use Agreement
 - · Has not been executed with either County.
 - · Planning to work with the Counties after the CUP hearing.
 - · Anticipated to be similar to the agreement executed for Triple H Wind Project.

South Dakota Public Utilities Commission

- Facilities Permit
 - Application Filed June 23, 2021, 2021.
 - Public Input Meeting August 11, 2021.
 - Statutory Deadline March 23, 2021.



North Bend Wind Project

Decommissioning Plan

- Decommissioning Plan is currently being developed for the North Bend Wind Project.
- Addresses removal and decommissioning at the end of Project life.
- Decommissioning involves
 - Removal of all above ground structures
 - Removal of below ground structures to a depth of 4 feet per landowner agreement
 - Restoration of topsoil
 - Revegetation and seeding
- Estimated decommissioning cost is expected to be similar to what had been identified for the adjacent Triple H Wind Project.
- The decommissioning plan will be submitted to the project docket upon completion.



North Bend Wind Project Project Benefits

- Capital Investment in Hyde County \$265-285 Million.
- The Project would create approximately 8-10 full time positions during operation. O&M activities will be conducted jointly between Triple H and North Bend.
- During construction the Project would employ 400 people during construction with up to 130 onsite at any one point.
- Project is projected to generate approximately \$967,000 annually in production taxes or over \$29 M over the 30 year project life.
 - State Approximately \$293,000 annually.
 - Counties Approximately \$337,000 annually.
 - School Districts Approximately \$337,000 annually.
- Stable and long term payment to the landowners directly participating in the project.
- Indirect benefits Increased use of local services/suppliers, sales tax generation.



North Bend Wind Project Preliminary Project Schedule

- PUC Facilities Permit Issuance March 2022
- Final Design and Engineering December 2021 to April 2022
- Start of Construction April 2022
- Civil Construction Work April June 2022
- Turbine Deliveries June August 2022
- Substation Energization October 2022
- Commercial Operation Date November 2022



^{*} The dates above are estimated as major contracts (BOP, TSA, GIA) have not been executed for the North Bend Wind Project.

